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AUTHOR Davis, B. Steven

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ABSTRACT

This third party evaluation examines the activities of the 1975-76 school year, which were part of a 3-year program in Bedford County, Virginia, to implement the Career Education NOW! Model for Career Education Curriculum, K-14, for a Rural-Urban School District. Results of the evaluation are organized around three major information areas of interest: Student self concept, student awareness of the world of work, and teacher use of career education resources and related practices. Evaluation instruments used with students were the Self Observation Scales (SOS), the Career Education Questionnaire (CEQ) (for grades 2-6), and the Career Maturity Inventory (CMI). Teachers were asked to complete the Career Education Teacher Practices Survey and the Bedford Career Education Survey. Detailed in the report are a description of the career education program, the conceptual basis for the evaluation (information-based evaluation), a discussion of information needs and test results, and conclusions and recommendations. The major conclusion reported is that results of student outcome data and the teacher survey generally support the project documentation regarding the use of career education materials and activities, and they present a picture of the successful implementation of goals and objectives of the program. (TA)

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FINAL EVALUATION REPORT
FOR THE
BEDFORD COUNTY
CAREER EDUCATION PROGRAM
BEDFORD, VIRGINIA

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PREPARED BY:

B. Steven Davis Research Associate

REVIEWED BY:

SUBMITTED TO:

Mr. Jerry P. Turpin Project Director Career Education NOW Box 332 Bedford, Virginia 24523

Helmuts A. Feifs Senior Consultant

August, 1976

IBEX, Incorporated 2526 Erwin Road Durham, North Carolina 27705

PREFACE

This is the final evaluation report for the third year evaluation of the Bedford Career Education Program, Bedford, Virginia. Though this document is prepared by IBEX, much of the contents are the result of an evaluation design conference with the Bedford project and school staffs. The Program Description section was prepared by the Project Staff. The cooperation given by the Project Director, Mr. Jerry Turpin, and his staff to the Evaluation Team deserves—a special thanks. They have been most helpful and cooperative throughout the evaluation effort. The administration of the evaluation assessment battery was the responsibility of the participating teachers. They were most cooperative.

B. Steven Davis
Evaluation and Research
IBEX, Incorporated

Helmuts A. Feifs Senior Consultant IBEX, Incorporated

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SECTION I. EXECUTIVE SUMMARY AND RECOMMENDATIONS

The U.S. Office of Education requires that all Part D
Vocational Exemplary Projects have an independent third party
evaluation. In response to a request for proposals from the
Bedford County Schools, IBEX, Inc. submitted a proposal in
September, 1975 and was selected to perform the evaluation.

The evaluation activities began in September, 1975 with a design conference in Bedford. This conference set the parameters for the evaluation and specified the roles to be played by IBEX and Project staff in carrying out the evaluation functions.

The IBEX evaluation team was headed by Helmuts Feifs,
Senior Consultant, and included Mr. Steve Davis and Mr. Steve
Schulz of the IBEX staff.

The evaluation of the 1975-76 year of the Bedford Career Awareness Project was designed by IBEX, Incorporated, the independent third party evaluator, in compliance with the U.S.O.E. Guidelines and with the close cooperation of the Project Staff. Many of the evaluation functions were carried out directly by IBEX, while others were performed by the Project staff and the results reviewed by the IBEX evaluation team.

The evaluation design for the 1975-76 year of the Project is summarized in Section III of this report.

Responsibility for the various evaluation functions was divided between IBEX and the Project staff, since much of the data collection and record-keeping was integral to the implementation of Project activities.

The results of the evaluation are organized around three major information domains or evaluation areas of interest.

These domains are: (A) student self concept, (B) student awareness of the world of work, and (C) teacher use of career education resources and related practices.

The major results of the 1975-76 evaluation are summarized in the following paragraphs. A detailed presentation of the results of IBEX's evaluation is found in Section V.

The importance of a healthy self concept is well recognized. As a measure of children's self concepts, the Self Observation Scales (SOS) were employed in this evaluation. Over 300 students were administered the SOS. The overall results show that the sample population closely approximates the national norming group Differences between the pretest scores and posttest scores showed a positive increase in pupil scores at the Primary Level (K-3) and the Intermediate Level (4-6).

The Career Education Questionnaire (CEQ) was used to measure the extent to which students (grades 2-6) are aware

of the concepts related to the world of work. The CEQ provided a wealth of useful information concerning the students' practical knowledge of the educational requirements necessary in securing a job in the world of work.

The Career Maturity Inventory (CMI) was used to assess students' perceptions of the world of work and their relation to it. This instrument was developed to measure (1) the maturity of attitudes and competencies that are critical in realistic career decisionmaking, (2) the ability of students to appraise their job-related capabilities, and (3) the aspiration level of students (more carefully defined as economic understanding of each job).

Each of the three CMI subtests employs a series of multiple choice items. Scores on each scale are converted from a raw to a percentile score. Overall, the CMI provided a great deal of information regarding the students' perceptions of the world of work and their relation to it, and the results showed a marked gain from pre- to posttesting.

The teacher and staff activities were an important component of the project. There were six major inservice activities and numerous faculty meetings held over the course of the year.

In addition, the teachers were requested to fill out the Teacher's Practices Survey (TPS) and the Bedford Career Education Survey.

The TPS was designed to obtain feedback directly from teachers regarding their use of 15 specific techniques and activities related to career education.

The results of the survey were summarized by estimating the average number of times each activity was used by the responding teachers during the school year. Many of the activities, such as "integration of basic skills with career education", "career education materials" and "displays concerning careers and jobs" were used more frequently than once per week.

The Bedford Career Education Survey was administered on a pre/posttest design for teachers and staff who participated in inservice activities. The survey was comprised of three scales:

(1) Acceptance, (2) Changes Orientation, and (3) Commitment.

The results of the survey showed a positive increase in teacher_attitudes on all three scales.

The results of the student outcome data and the teacher survey generally support the project documentation regarding the use of career education materials and activities, and they present a picture of the successful implementation of goals and objectives of the program.

SECTION II. PROGRAM OVERVIEW

Career Education NOW! - Model for Career Education Curriculum, K-14 for a Rural-Urban School District is the culmination of Bedford County's previous experience in the field of career education. Prior to the implementation of this program, Bedford County Public Schools had many elements of career education already integrated into its curriculum and program of studies. While the results of these individual programs were salutary, what was needed was a way to fuse these programs into a unified effort which would maximize the benefits which students received. Bedford County realizes that career education should be a comprehensive, instructional program which begins in the kindergarten and extends through the adult years. In light of this realization Bedford County Schools is committed to developing and making a functional reality, a relevant Career Education Curriculum, K-14.

A major emphasis of this program is the development of a curriculum and the providing of services that provide opportunities for career awareness in K-6, and career orientation and career exploration in grades 7 and 8. Career Education Resource Persons in Grades K-7-employed in the program assisted in meeting these objectives. The Work-Experience Coordinator and the Project Supervisor assisted in improving existing services and instructional opportunities in the program.

Bedford County Schools has implemented a program of nine-week exploratory courses for seventh and eighth grade pupils in selected schools. These include exploration in agricultural science and mechanics, art, business education and typing, French, home economics, music, public speaking and Spanish. Each student is encouraged to explore a choice of four areas during the school year. The relationship of the exploratory courses to career clusters is emphasized in the introductory phase of each course. Exiting options from the related clusters are emphasized as students look at the various progressive levels of training for related occupations associated with the areas being explored.

Other courses were planned for vocational-technical students who wish to complete job skill training for entry into jobs at the end of the twelfth grade in such programs as carpentry, drafting, electronics, occupational foods, practical nursing, etc.

The Work-Experience Coordinator has strengthened the preparation

and experiences provide for these students exiting before graduation. The Project Supervisor and Work-Experience Coordinator provide a program of placement, follow-up, and research into community resources. These courses and personnel have enabled meeting the goal of insuring placement of all exiting students in either: (a) a job, (b) a post-secondary occupational program, (c) a baccalaureate program.

The program also serves to increase the self-awareness of each student, develops in each student favorable attitudes about the personal, social and economic significance of work, and assists each student in developing and practicing appropriate career decision-making skills.

Bedford County Public Schools has developed an extensive continuing education program including numerous night classes which allows employed persons to earn some academic high school credits, obtain schooling in basic education, secure an equivalency of a high school education certificate, and acquire vocational technical skills.

The preceding was a description of the major features of the program during its first year. This year Bedford County Schools will attempt to fill one important "gap" in the total program. There is a need for the potential dropout or disadvantaged (educationally or economically or socially) student to acquire some form of job-level entry skill training during the ninth and tenth grade years of schooling. This will be provided

by a special program taught in skills laboratories by special teachers. The academic subject approach for these students was career education-oriented during the first year of the project. With this revised approach, disadvantaged students during the third year of the project took relevant academic work at base high schools. During the three-hour block of time, selected disadvantaged students were taught job-entry skills at the Bedford Educational Center which is centrally located. This phase of the project is reflected in an increased budget for this year's program.

The following are elements of new concepts and innovations involved in the Bedford program:

a. Role of the Career Education Resource Person — The career resource person in this project provides support to the educational process in a variety of ways to both students and teachers. Assistance is given to teachers in local elementary schools as the career resource person aids in curriculum development, K-7 and helps teachers integrate career education into language arts, mathematics, science, and social studies. Through group guidance, he will assist elementary students to move toward self-awareness, develop healthy attitudes toward work, and provide the background help to assist children with developing career decision-making skills. Individual counseling is emphasized in order to assist students with individual problems and to make staisfactory

- adjustments as they move through elementary school experiences.
- initial career ories deselected meaningful exploratory expessory upils in grades 4-7. Selected experiences that develop hands-on-skills will be introduced by the skills teachers. Working with teachers, he or she helps grade level teachers to develop units involving activity-centered experiences that assist the student in seeing-the relevance between science; mathematics, language arts, and social studies and career goals.
- experience coordinator assists in the placement of students in cooperative education experiences in grades 11-12.

 He assists working students in placement that avoids "dead-end" types of work that merely provide financial rewards while the student is attending school and working parttime under no formal program. The work-experience coordinator also assists in curriculum development and serves as a resource person to bring community resource people into academic classrooms to help teachers make subject matter more relevant to pupils in grades 11-12.

- d. Revised Approach to Exploratory Courses -- In this program, exploratory courses provide students in grades 7 and 8 with experiences that will enable them to develop career and educational decision-making skills as well as providing opportunities in the development of simple skills related to some of the Steen career clusters.
- e. Role of the Project Supervisor -- The project supervisor provides a rural-urban school division with services not generally found in this type of school district. He coordinates the work of secondary guidance counselors to insure placement of all exiting students in either a job, post-secondary occupational program, or a baccallaureate program. Follow-up and research studies are coordinated by this professional worker.
- f. Inservice Program for Restructuring the Curriculum Around the Career Education Theme -- All elementary and secondary instructional personnel in Bedford County Public Schools received inservice training to move the program of studies toward a K-14 total career education concept.
- g. Integration of Local Adult and Continuing Education Program Into the Career Education Model -- This program provides for movement through the K-12 program of studies into designed programs equivalent to Grades 13 and 14 provided through local adult and continuing education programs.

The skills Teacher for Disadvantaged Students -The skills teacher for disadvantaged students works
with selected potential dropouts and disadvantaged
students at the ninth and tenth grade levels.

The Bedford County Public Schools program differs from that it combines many elements of career traditional programs education into a ode or Career Education K-14. The traditional. approach to implementing career education in a school district has been to concentrate on a fairly narrow grade area such as K-6, 7-8, 9-10, etc., rather than setting up a complete program embracing the total curriculum K-14. This program is one in which all five phases of career education -- career awareness, career orientation, career exploration, skill development, and post-high school options are put into effect at one time. Through the three year period of the project, the model has been a developed to the point of making career education a reality in the Bedford County Public Schools. The fact that Bedford County is partly rural in nature with many urban elements, has proved to be an advantage for an exemplary project in that the model was.... more adaptable to different types of school districts.

SECTION III. CONCEPTUAL BASIS FOR EVALUATION

The strategy upon which this evaluation report builds is called Information Based Evaluation (IBE)*. This strategy has been successfully implemented on some forty projects at both the state and local level-over the past three years.

The concept of information utility is the overriding character: differentiates "good" evaluation from "poor" evaluation and differentiates undisciplined data collection from information gathering. Judged by even modest standards of utility educational research and evaluation has a pitifully poor record and the unfortunate educational manager or policy maker operating within this void must sift through mountains of data for those kernels of desired information.

In the social sciences in general, and in education in particular, the mechanisms do not exist for supplying information to those that need it. The traditional evaluation mechanism has not added much to the meager research contribution. Theoretically, evaluation should be a suitable mechanism but it has suffered from growing pains and an obsession to separate itself clearly from the research model. The Information Based Evaluation model, hopefully, suffers from no such obsessions,

A. Jackson Stenner, Information Based Evaluation Series Book 1: An Overview of Information Based Evaluation: A Design Procedure. Arlington, Virginia. IDEA Corp. 1972.



except perhaps that of adhering strictly to the concept of information utility.

Another contributing factor to the inadequacy of present day evaluations has been the relationship between evaluation and the performance objectives movement. The symbiotic growth these two concepts have enjoyed has served to reduce the full potential of educational evaluation. The crucial role performance objectives play in program management is obvious; however, the question arises as to what place objectives should have in evaluation. The Information Based Evaluation approach views program objectives as a focus of evaluation activity, but by no means as the focus. More traditional approaches to evaluation have used performance objectives as the foundation for the planning and execution of evaluation activities. This procedure is considered inadequate for several reasons:

- 1. Basing evaluation on performance objectives restricts the focus of evaluation to intended outcomes; thus overlooking unintended outcomes which are potentially just as important.
- Performance objectives provide a very inflexible basis for evaluation in that they are seldom changed during the program year, and thus information needs (which are fluid) cannot be adequately addressed.
- 3. Even if information on the attainment of all performance objectives is provided, important information is invariably ignored because objectives are not developed with

information needs in mind, but rather are developed as guideposts for program management.

4. Objectives based evaluation often views each objective as a unique area of focus and thus important relationships are often overlooked.

If program objectives are inadequate as a foundation for evaluation, what are the alternatives? How do we define the parameters of evaluation, i.e., what are the reference points?

In objectives based evaluation, the reference points are the program objectives. In information based evaluation the reference points become the information users for the program and the information domains (needs). Capitalizing on these two reference points, a technique called domain analysis can be used to define and focus the direction of the evaluation.

Information based evaluation should not be considered as "objective free" evaluation. Information based evaluation recognizes the importance of program objectives, but only to the extent to which feedback on the objectives is considered important to information users. The overriding consideration is the type of questions about which relevant individuals desire answers. Priorities are established in both the information domain category (e.g., student cognitive growth) and the information user category (e.g., local superintendent) and the evaluation resources are expended to meet these identified priorities. An additional check on the adequacy of evaluation information is the extent to



which the information leads to action. If no relationship exists between information and action, then the adequacy and/or quality of the evaluation effort is in doubt.

In polling the various information users, the evaluation team can often develop evaluation questions that relate to "unintended outcomes" or "shadow benefits". These questions occur because all information users are probably not supportive of the program procedures and/or objectives; thus, their information needs will highlight aspects of the program that would not receive attention in an objectives based evaluation effort. Program developers a program staff generally have a highly developed. commitment for the program and are myopic in viewing the outcomes of the program. The possibility that the program may cause some negative side effects is very difficult for them to comprehend, let alone accept. However, individuals or factions that have been agianst the program from the start are generally more than capable and willing to identify potential weaknesses and unintended out-Therefore, in serving each information user, the evaluacomes. tion team can gain a balanced view of the program.

Information based evaluation recognizes that an evaluation must be dynamic if it is to be responsive. Program objectives rarely change during the project year, thus the objectives based evaluation is static and methodical in responding to the information requirements. Information based evaluation accepts the fact that information needs are fluid, and new questions are posed throughout the program cycle.



SECTION IV. INFORMATION NEEDS

Information Based Evaluation (IBE) rests on three major components: information users, information domains and evaluation questions. At the evaluation design conference with the Bedford staff, these three components were carefully viewed and given priority rank in the Career Education evaluations.

Information Users

Those who need or desire information about a particular project or program in the semantics of IBE are called information users. For the Bedford Career Awareness Program, the following priority list of users was adopted:

16 -

Action Users

Project Staff

Teachers

Counselors

School Administrators :

Support Users

Superintendent

School Board

State Department of Education

USOE





Interest Users

Parents

Business and Industrial Community

Lay Community

Professional Community

Higher Education

Information Domains

A general area of concern for project or program staff and participants is called an information domain. For this project the following list of domains was adopted:

Students

- (1) Career Awareness
- (2) Self Concept
- (3) Work Attitudes

Teacher Evaluation

- (4) Career Information
- (5) Career Education Attitude
- (6) Career Education Implementation

Evaluation Questions

The following list of evaluation questions attempted to blend the directions from the U.S.O.E. Guidelines with evaluation questions that were adopted by the exemplary project. The Project Director and IBEX, as the evaluator, feel that we responded to the Guidelines and met the information needs of the Project and of the U.S.O.E.

During the course of the evaluation, additional questions may arise



which can be answered with the available data elements; if so, they were add the following it:

- How did students change in relation to the six areas of emphasis in terms of knowledge, attitudes, and behavior?
 (Note the six areas of emphasis are: 1) career awareness and preparation; 2) self awareness and understanding, 3) economic awareness and understanding; 4) attitudes and appreciation,
 5) educational awareness, and 6) decision making
- 2. How do principals perceive the Career Education (CE) effort?
- 3. How did teacher involvement in the Career Education effort change?
- 4. To what degree do teachers infuse CE into their classroom activities and to what extent did the Planning Guide facilitate that infusion?
- 5. What teaching strategies advocated by CE (and at what level) are teachers utilizing in their classrooms? Do they show increased use of such strategies?
- 6. Is there an increase in the learning process?
- 7. Was the community involvement effective?

8. Was the performance of the Career Education staff effective in the opinions of teachers, principals and other administrators in the following areas:

conducting inservice;
assisting with implementation;
arranging resources?

- 9. Hoe does project staff rate their own effectiveness during 1975~76?
- 10. How do members of the GE staff utilize their time?

Evaluation Constraints

No evaluation effort is devoid of constraints or limitations; thus, it was imperative that the constraints be considered from the beginning of the evaluation and the procedures be established to work within these constraints. Two major constraints, time and resources, are of primary importance.

For this evaluation effort, \$6,900 of the gross budget was allotted. It was necessary to delete some-desirable information needs to stay within this constraint. Principals agreed to one and one-half hours of student time during the spring term. To meet this constraint a modified sampling matrix using test, grade and class as variables, was adopted, thus all students did not take all tests. Each student had one hour to one hour and fifteen minutes of actual testing time.

All the students in the Bedford School District participate in the Career Education Project; therefore, no control was possible for the study. Finally, since Career Education is to be infused into the instructional program and not isolated as a specific area, the determination of cause and effect relationships will not be considered as a part of this evaluation.

Instrumentation

The evaluation instruments listed below were presented for the project staff's consideration. The instruments utilized for the evaluation were the recommended instruments in the U.S.O.E. Guidelines. Each instrument is briefly described; its subscales noted. Complete copies of the instrument appeared in the Instrument Catalog. Instruments are arranged by audience groups.

Students

Self Observation Scales -- A measure of student self-concept at the primary (K-3) and intermediate (4-6) levels. Scales include: Self Acceptance, School Affiliation, Social Maturity, Self Security, Achievement Motivation, Social Confidence, Peer Affiliation, and Teacher Affiliation. (SOS)

Self Observation Scales - A measure of student self-concept for secondary (7-12) pupils. Scales include Self Security, Social Maturity, Peer Affiliation, Teacher Affiliation, Family Affiliation, School Affiliation, Social Confidence, Self Assertion, and Self Acceptance. (SOS)



Career Maturity Inventory - An instrument designed by the California Test Bureau to determine if students can relate social and academic skills learned in school to occupational requirements. (CMI)

Career Education Questionnaire - A measure designed by the Vocational Education Unit of the University of Minnesota to determine if the student is aware of career possibilities and if he sees dignity in all work:

Teachers

Career Education Teacher Practices Interview - A teacher interview guide to determine level of use by teacher of certain practices suggested by the Career Education effort.

(CETPI)



SECTION V. EVALUATION RESULTS

This section is organized around three major information domains or evaluation areas of interest. These domains are:

(1) student self concept, (2) student relationships with the world of work, and (3) student attitudes toward career development.

Student Self Concept

A first objective at the elementary level is to enable students to develop a more positive self concept and greater understanding of self.

petween the ages of five and twelve self concept begins to crystallize. During this period (termed the latency period by many authors), the child matures considerably in the physical, cognitive and affective areas. He confronts his environment with an increasingly stable set of feelings, attitudes and behaviors which are based, to a large extent, on his self concept which is likewise, stabilizing. As the child becomes older he becomes more sure of what he likes and dislikes, who he likes and dislikes, what he enjoys doing and what he dislikes doing, how he sees his future and what he will be doing in this future. He begins to plan and his aspirations and hopes tend to be consistent with the way he values himself, which, in turn, is dictated in large part by how he perceives others value him.

Although the early school years are characterized by a crystallization of self, the child also begins to differentiate.

The self concept of the five-year-old is a relatively simple construct.

The five-year-old views most things as a dichotomy: people are good



or bad, food is good or bad, places are happy or sad place to be, other children are friendly or mean. As the six-year-old enters first grade, new demands are placed on him. He is expected to interact with unfamiliar children and authority figures and, to a great extent, his well being is determined by how successfully he negotiates these new demands. It is these early school years that have a truly profound impact on the child's self concept development. Never before has he been consistently, objectively and sometimes coldly, judged by peers and adults. He is unable to separate himself from his actions so that reprimands and criticism often become viewed as direct threats to self. With this background information, we now turn to the correlates of a positive and negative self concept, respectively.

The Positive Self Concept*

Children with positive self concepts are, first of all, confident about their ability to meet everyday problems and demands. They are confident about their relationships with other people and take pleasure in mutual interdependence, in needing others and in being needed. Autonomy and interdependent are beginning to take shape. Children with strong self concepts view themselves as desirable and valuable contributors to the well being of those around them. They see themselves as deserving of attention and love and feel they are capable of reciprocating. They compare themselves favorably with their peers and feel that authority figures are supportive and interested in them as individuals. These children tend to be comparatively

^{*} The profiles for a "positive" and "negative" self concept are drawn from the results of the national validation and norming of the Self Observation Scales.

independent and reliable. These qualities may stem from their feelings of sufficiency and adequacy in new and challenging situations. They are relatively free from anxiety, nervousness, excessive worry, tiredness and loneliness. They report being happy with the way they look and would not change their appearance if they could.

Children with a positive view of themselves enjoy interacting with their peers and see themselves as on a par with their peers in most situations, while occasionally professing superiority in certain areas. They recognize the social consequences of certain "asocial" actions and see the benefits of give-and-take in social interactions. These children are able to admit that they make mistakes and that they sometimes hurt other people, but they apparently do not view these admissions as major threats to self:

Behaviorally, these children are seldom designated as problem—children. They usually appear comparatively calm, keep their hands to themselves and although they are frequently competitive, they express aggression when external considerations warrant aggressive behavior. They express dissatisfaction with their own poor performances but relatively seldom make self deprecating remarks. They react positively to constructive criticism, can accept praise well, and derive obvious pleasure from a job well done.

Scholastically, children with positive self concepts tend to be above expectation in reading and mathematics. They tend to attain higher scores on standardized achievement tests than would be predicted from ability tests. These children are positive toward school and view it as a happy, worthwhile place to be.

The Negative Self Concept

Children with poor self concepts are insecure and pessimistic about their ability to meet everyday problems and demands and they are unsure about their relationships with others. often tend to be either overly dependent and withdrawn or overly aggressive with apparently minimal overt needs for social interaction and, in each case, growth toward autonomy appears stunted These children view themselves as undesirable and retarded. and, through their often inappropriate behavior (which is, although inappropriate, usually quite consistent with the way the children feel about themselves), they are regularly reinforced in these feelings.* They report not being needed by significant others and do not feel that others care about them as individuals. They compare themselves unfavorably with their peers and frequently report being inferior to their peers in age-appropriate activities. Authority figures represent a threat to children with poor self concepts.

These children are threatened in social interactions and prefer to play with younger children. They report a desire to dominate in peer-oriented activities, i.e., always wanting to be first or always wanting to be the leader, and yet, would prefer to play alone if given a choice. They tend to be quitters and are satisfied with poor performance (again, poor performance is consistent with the way these children view themselves). These children find it difficult to admit to even common mistakes and are quite insensi-

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tive to other people's feelings.

^{*}Modifying the truism from the financial world that "the rich get richer and the poor get poorer", we can say that children with strong self concepts get positive reinforcement and, thus get stronger, while those with weak self concepts get negatively reinforced and thus, get weaker.

Behaviorally, these children are frequently labeled as problem children. The acting out, aggressive, verbally disruptive child has a markedly lower self concept than does the "healthy" child. Likewise, the insecure, withdrawn, quiet child also has a low self concept, but his inadequacies are manifested differently from the aggressive child. These children respond negatively to criticism and, surprisingly, they often respond inappropriately or evennegatively to praise because positive feelings are inconsistent. with the way these children feel about themselves....

Scholastically, children with poor self concepts tend to be below average in reading and mathematics. They tend to obtain lower scores on standardized achievement tests than would be predicted from ability tests. These children are negative toward school and view it as an unhappy place to be.

As a measure of children's self-concepts, the Self-Observation Scales (SOS) were used in this evaluation. The SOS is a direct, self report, group administered instrument comprised of fifty items at the primary level (K-3) and sixty items at the intermediate level (4-6).

The Primary level of the SOS measures five dimensions of children's self concept. Each scale is labeled in a positive manner with high scores being most characteristic of the scale name. The scales are as follows:

Self Acceptance

attribute to themselves qualities of happiness, importance, and general competence. They see themselves as being valued by peers, family and teachers. Children with low scores see them-

selves as unhappy, lacking in general competence and of little importance to eithers.

Social Maturity

Children with high scores on this scale know how they are supposed to think and feel in a variety of social situations. They have learned the importance of such notions as "fair play", "sharing", "perseverance", "helpfulness", and "generosity". Children with low scores on this scale have not learned these notions and are likely to evidence behaviors that most adults would characterize as selfish; inconsiderate or immature.

School Affiliation

Children with high scores view school as a positive influence in their lives. They enjoy going to school, and they enjoy the activities associated with school. Children with low scores view school as an unhappy place to be. They do not enjoy most school related activities and are negative about the importance of school in their lives.

Self Security

Children with high scores report a high level of emotional confidence or stability. They feel that they are in reasonable control of the factors that affect their lives and spend little time worrying over possible troubles. Children with low scores on this scale worry a great deal. They are concerned that something bad may happen and report feelings of nervousness.

Achievement Motivation

This is a special scale, relating achievement and ability to self concept. High scores indicate increased probability that the child will achieve well relative to ability; low scores indicate increased probability that the child will not achieve as well as might be expected on the basis of his ability. This scale is considered to be experimental, and we recommend that its use for individual assessment be deferred pending the results of our current program of confirmatory analyses.

The Intermediate level of the SOS measures the same five dimensions of children's self-concept and adds three additional scales, as follows:

Self Security :/

Children with high scores report a high level of emotional confidence or stability. They feel that they are in reasonable control of the factors that affect their lives and spend little time worrying over possible troubles. Children with low scores on this scale worry a great deal. They are concerned that some thing bad may happen and report feelings of nervousness.

Teacher Affiliation

Children with high scores on this scale lime their teachers.

They see the teacher as helpful, attentive, understanding and generous. Children with low scores on this scale see the teacher as arbitrary, inconsiderate of children, and/or a source of emotional pain.

Peer Affiliation

Children with high scores on this scale consider their





relationships with other children to be both of high quality and of considerable importance to them. They see themselves as approved of and valued by their peers. They like to be with other children. Children with low scores do not see their peer relationships as an asset. They see other children as unfriendly, they have few friends, and do not accept the responsibilities of friendship easily.

Scoring of the SOS is based on national norms. For each scale, a child receives a standard score (T score), representing a distribution with a mean of 50 and a standard deviation of 10.

National percentile and stanine equivalents of this standard score also are provided. Responses to individual items are not given.

The Primary Level-of the SOS was given to the student sample at grade 3 and the Intermediate Level to grade 6 in the Fall of 1975 and Spring of 1976. Table 1 presents the results of the Primary SOS.

Based on standard scores having a mean of 50 and a standard deviation of 10, these results indicate that:

- Bedford primary career education students showed a gain mall areas of self concept from pre-to posttesting.
- Bedford primary career education students achieve higher scores in Self Security than the national normgroup.
- higher scores in Social Maturity than the national norm group.

 Bedford primary career education students appear to have slightly lower scores in Self Acceptance than the national norm group.

The preceding data should be viewed with some reservation since the pretest group was much larger than the posttest group. (N=222/N=79)

Results of the SOS Intermediate Level are presented in Table 2. The SOS was given on a pre/posttest design this year.

An examination of these tables reveals that:

- Intermediate students in the Bedford career education class obtain higher scores than the national norm group in Self Acceptance, Social Maturity, Social Confidence, and Peer Affiliation.
- Intermediate students appear slightly below the national norm group in Self Security, School Affiliation, and Teacher Affiliation.

The preceding data also should be viewed with some reservation since the pretest group was much larger than the posttest group.

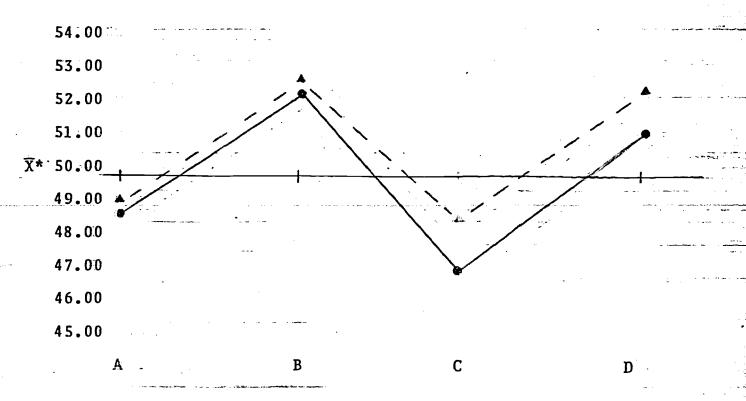
(N=3/N=81)



TABLE 1

Bedford Career Awareness
1975 - 76
Primary Self Observation Scales
Pre and Post Test
Means and Standard Deviations
Pre N=222 Post N=79

		Pre X	Pre S.D.	Post X	Post S.D.
Α.	Self Acceptance	48.50	9.85	48.87	10.00
В.	Social Maturity	52.04	8.34	52.13	7.21
C. ·	School Affiliation	47.02	11.69	48.51 -	10.51
D.	Self Security	51-18	9.18:	52.34	7.83



*50.00 is mean with a forced S.D. of 10 based on normative procedures

Legend: Pre Test Score

A---- Post Test Score



TABLE 2

Bedford Career Awareness Program
1975 - 76
Intermediate Self Observation Scales
For Pre/Post Test
Means and Standard Deviations
Pre= 333
Post= 81

	Pre X	Pre S.D.	Post X	Post S.D.
A. Self Acceptance B. Social Maturity C. School Affiliation D. Self Security E. Social Confidence F. Peer Affiliation G. Teacher Affiliation	50.36 50.12 46.76 49.02 50.90 51.40 47.17	10.11 9.88 11.66 10.40 8.73 9.51 11.48	50.77 53.17 47.74 48.49 54.65 52.36 48.15	9.28 8.92 9.79 9.74 9.07 8.92 10.97
57.00			•	

56.00 55.00 54.00 52.00 51.00 49.00 48.00 47.00 46.00 45.00 A B C D E F G

*50.00 is a mean "T" with a forced S.D. of 10 based on normative procedur

Legend: Pre Test Scores

Student Career Awareness

The instrument which was used to measure lower grade students' knowledge of concepts relating to the world of work was the Career Education Questionnaire. The Career Education Questionnaire (CEQ) is comprised of five content areas, which are viewed as important components of any occupation. The five content areas are: (1) job fields, (2) ability requirements.

- (3) occupational levels; (4) needs and/or job satisfaction and
- (5) working conditions or characteristics.

Each of the CEQ test items employs a series of drawn pictures of workers and working conditions. Each question is read to the children, who are then instructed to place an "x" under the picture which they feel best answers the question. Scores on the scales are converted from a raw score to a mean score. It is unfortunate that the number of project students taking the CEQ was not as large from pre-to-posttest to draw a more definite conclusion concerning the test data. Since the CEQ does not have any national norms, and as the size of the project student group for the posttest is small, the following are tentative conclusions.

- Career Education students in the lower grades (2-6)

 have shown a gain in their practical knowledge of the

 educational requirements necessary in securing a job

 in the world of work.
- Career Education students appear to understand the job availabilities in the Career Education clusters:

The instrument which was used to assess upper grade students' perceptions of the world of work (and their relation with it) was the Career Maturity Inventory. This instrument is comprised of five scales. A decision was made by the project director and the evaluation team to use three of the five scales. The three scales used were chosen to measure: (1) the maturity of attitudes and competencies that are critical in realistic career decision making, (2) the ability of students to appraise their job-related capabilities, and (3) the aspiration level of students (more carefully defined as economic understanding of each job).

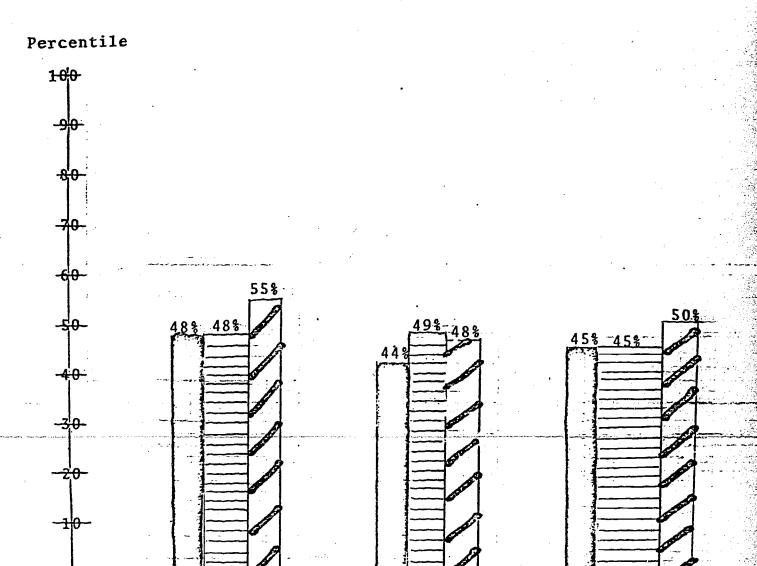
Each of the CMI scales employs a series of multiple choice items. Scores on each scale are converted from a raw score to a national percentile. It is unfortunate that the number of project students taking the CMI was not as large from preto posttest to allow the statement of a more definite conclusion, concerning the test data. Since the CMI norms are not true national norms, and as the N size for the project students for the posttest is small, the following are tentative conclusions.

- High school career education students (grades 10-12)
 have gained in the area of practical knowledge of
 the world of works.
- e High school career education students appear to exhibit a minor gain in the ability to focus upon goal selection, planning and problem solving.



Table 3 BEDFORD CAREER AWARENESS PROGRAM

1975 - 76
Pre/Post Test Results
CAREER MATURITY INVENTORY
LOOKING AHEAD
GRADES 10,11,12



Legend: Pre Test

Post Test

Norm Group

· Grade 10-

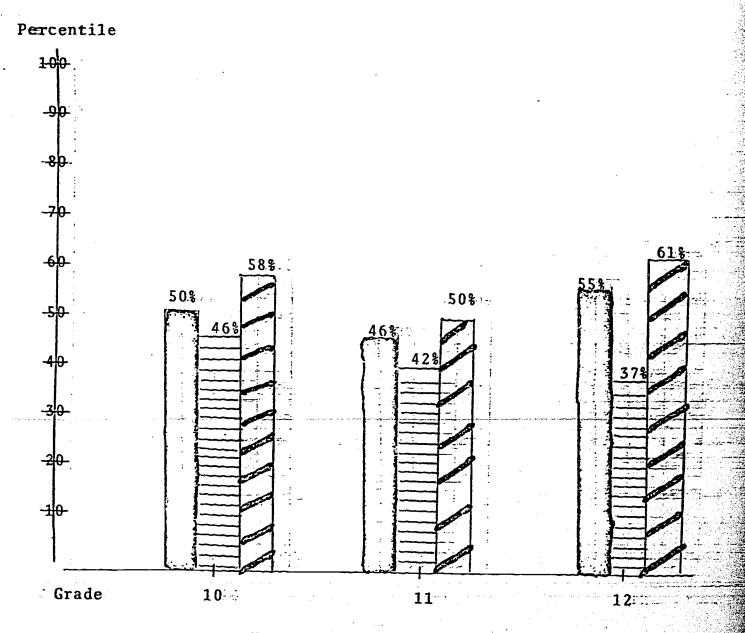
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12

Table 4 BEDFORD CAREER AWARENESS PROGRAM

1975 - 76

Pre/Post Test Results CAREER MATURITY INVENTORY CHOOSING-A JOB GRADES 10,11,12

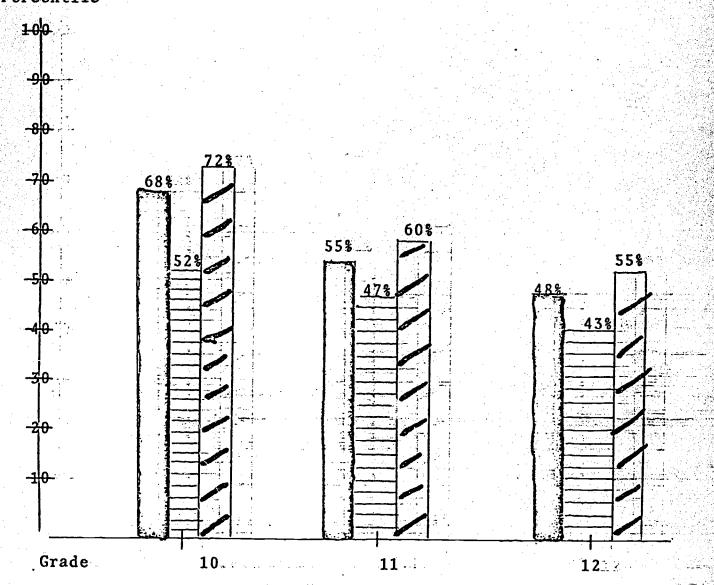


Legend: Pre Test Post Test Norm Group

Table 5 BEDFORD CAREER AWARENESS PROGRAM

1975 - 76
Pre/Post Test Results
CAREER MATURITY INVENTORY
WHAT SHOULD THEY DO?
GRADES=10,11,12

Percentile



Legend: Pre-Test

Post Test

Norm-Group

Teacher Outcomes

In order to respond to evaluation questions concerned with the teacher's role in the career development project, the teachers were requested to fill out the Teacher Practices Survey, and the Bedford Career Education Teacher Survey.

The Career Education Teacher Survey was completed by all of the teachers participating in the project. Each practice must be viewed separately in order to interpret the results of the survey. Obviously, some practices such as videotaping of career education activities are used only occasionally and others, such as integration of basic skills with career education, should be daily activities. Activities such as use of library resources related to careers and displays concerning careers and jobs would be considered good if utilized once a month. Each practice is presented along with the presentation of responses in each category.

An inspection of the following table reveals that the most often expressed practice among participating teachers is the integration of basic skills with career education, one of the basic concepts recommended by the project. Generally, the utilization of the various career education practices seems to fall into reasonable ranges for the practices presented. Teachers are using the concepts and practices of the career education program in their classrooms.

There are particular areas that need attention in the staff development phase of the program. Forty-eight percent of the



respondents never use Career Education programs through
Educational Television. Although this is low, we recognize
that many schools may not have the necessary equipment to
utilize utilize this activity. Other activities that teachers
seem to need is more assistance in using a) displays concerning
careers and jobs, and b) visits to factories, business, or
self-employed persons.

The Bedford questionnaire consists of three scales identified by factor analyzing the forty questions. The questionnaire is designed to measure variation among staff members in terms of their commitment, change orientation, and affective acceptance to career education. Table 6 presents the percentage of the teacher responses to the questionnaire according to the three scales.

The acceptance scale was designed to measure teacher acceptance of principles and concepts of career education.

Employment factors and skill training are included in this section. The items contained within this factor are rather general and broad in scope and do not call for parsonal commitment on the part of a teacher to support adopting the career education program.

The commitment scale deals with teacher involvement. It is more action-oriented, and commitment seems to be the major theme of this subscale. It emphasizes an integrated program involving all students and, consequently, a teacher will feel

the need to be involved. At the opposite end of the continuum this scale identifies the teacher who endorses a separate career education program and who perpetuates a fragmented curriculum and differential staffing. These items do not include employment factors such as occupational, vocational or career education. It is designed to identify potential innovators and teachers who are receptive to change without reference to the "work ethic".

The change orientation scale is designed to measure a teacher's change in attitudes concerning his/her knowledge of the career education program goals and objectives. The items in this scale are rather general and broad and are intended to gauge teacher acceptance of the program. Table 7 presents the results of the survey on a pre/post test-basis. Teachers showed a substantial gain in all three of the scales.

Table 6 CAREER AWARENESS TEACHERS' PRACTICE

Number and Percent Response by Categories for Each Item

				•	
	(N) Daily	Atleast Once A Week	Atleast Once A Month	during	Never
.Integration of basic skills with career education	(65) <u>17</u> 26.1	20 30.7 _*	7.6	33.8	1.5
related to careers	(59) = 3 5.1	15 25.4	<u>14</u>	22	5
Interrelation of concepts and careers	$\begin{array}{ccc} (60) & \underline{13} \\ & 21.6 \end{array}$	<u>15</u> 25	14 23.3	-17	8.43
Use of video taping of career education activities		1.4	7 10.2	28.3 32 47.0	16.6 28
Class presentation of career opportunities	$(61) \qquad \frac{2}{3.2}$	14.7	20 32.7	25 40.9	41:1 5
Displays concerning careers and jobs	(62) $\frac{2}{3,2}$	4 6.4	17.	28	11
Group discussions of careers and job opportunities	$\begin{array}{c c} (61) & \underline{2} \\ \hline 3.2 & \end{array}$	12	27.4 17 27.8	45.1 25 40.9	17.7.5 -5.8.1
Pupil selection of career field of interest	(57) $\frac{2}{3.5}$	•	12 21.0	<u>33</u> 57.8	10
Newspaper ads and magazines related to job opportunities	(56) $\frac{1}{1.7}$	<u>2</u> 3.5	10 17.8.2	22 39.2	17.5 21 37.5
Career education materials	$(64) \frac{3}{4.6}$	9	26 40.6	20 	6
Career-related role playing and simulations	(54) $\frac{1}{1.8}$	4 7.4	8 14.8	29	9.3 - 12 - 22:2
Joint planning of activities with Career Education project staff	(60)	4 6.6	15- 25.0	23 38.3	22:2 18 30.0
Career education films or Filmstrips	(36) $\frac{1}{2.7}$	5 13.8	$\frac{1}{2.7}$	17 47.2	12 33.3
fisits to factories, businesses in self-employed persons	(57)	•	2 3.5	36 63.1	19 33.3
arcer Fducation through dERIC nal T.V. Programs	(61) -45	1.6	3 4.9	_35 - 57-7	22

Table 7 Bedford Career Education Survey Acceptance Scale

Ques	tion	Strongly Agree Pre/Post	Agree Pre/Post	Uncertain Pre/Post	Disagree Pre/Post	Strongly Disagree Pre/Post
36.	Students should be told about different jobs and job requirements during the study of every subject in every grade.	12% * 33% **	35% 39%	23% 6%	25% 16%	5% 6%
37.	Every student should have at least one paying job before graduating from high school.	15% 46%	42% 39%	30% 11%	13% 2%	N/R 2%
33.	Visits from industrial chemists would create more interest in a chemistry class.	15% 38%	70% 51%	12% 9%	.;3 % 2 %	N/R N/R
19.	Every high school graduate should be guaranteed either further education or immediate employment.	· 10%	25% 34%	25% 18%	25% 15%	15% 10%
6.	Flementary school would be better if centered around the world of work.	2 % 6 %	16% 43%	32% 36%	30% 15%	20% N/R
1.	An effective program of career education would lower the school dropout rate.	438 608	33 % 29 %	17% 11%	7 % N/R	N/R N/R
1.	Students should hold several kinds of jobs before leaving high school.	IB M	43% 48%	26% 14%	13% 4%	5 % 2 %
5.	Elementary school students should have workmen, such as postmen, garment workers, and electricians, coming to school to talk about their jobs.	58% 58%	528 40%	10% 2%	N/R N/R	N/R N/R
2.	If schools were career-oriented, they would be useful to more students.	25% 59%	63% 41%	12% N/R	N/R N/R	N/R N/R
3.	Most local business and professional people would help with a career program in the schools.	13% 17%	54% 70%	30 % 13 %	3 % N/R	N/R N/R

^{*} Indicates pre test score** Indicates post test score

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Table 7
Bedford Career Education Survey
Acceptance Scale (Continued)

stion	Strongly Agree Pre/Post		Uncertain Pre/Post		
Career education will cost money but will be a saving for society because of an increase in employment.	10% * 24% **	- · · ·	•	23% 8%	N/R N/R
Our local community should pay for career chication if the state and federal governments cannot.	2 % 34 %	30 % 43%		13% N/R	13% N/R
Local residents would be eager to visit schools to talk to students about their jobs.	12%	42%	42%	4 8	N/R
	14%	50%	30%	4 8	2%
Students who are good in history should be to about jobs in this field.	25%	55%	18%	2 %	N/R
	37%	53%	4%	4 %	2%
Carcer education should be available to all students from kindergarten through grade 12.	15% 74%	55% 20% R	10%	12% N/R	8 % N/R
Foreign language teachers should teach about careers in their classes.	5 %	68%	18%	7 %	2 %
	51 %	47%	N/R	N/R	2 %
The ways mathematics can be used in jobs can be taught in a few days in every mathematics course.	8 %	25%	20%	35%	12%
	11 %	20%	13%	· 29%	17%
The quality of education would be raised by an emphasis on jobs and work.	8	37 %	30%	. 23%	2 %
	17%	53 %	24%	2%	4 %

^{*} Indicates pre test score
** Indicates post test score

N/R = No response

Bedford Career Education Survey Change Orientation

	·		•		
<u>uestion</u>	Strongly Agree Pre/Post	Agree	Uncertain Pre/Post	Disagree Pre/Post	Strongly Disagree Pre/Post
2. I find that individualized instruction using performance objectives is valuable in helping the student succeed.	20% *	58%	20%	2 %	N/R
	34% **	53%	11%	N/R	2%
3. I believe it is more important to work with the entire class than to spend a lot of time with individuals.	2 %	N/R	23%	50%	25%
	N/R	4%	11%	59%	26%
8. I accept the idea that individualized insturction using performance objectives allows students to experience success more often.	30%	50%	15%	5%	N/R
	39%	48%	11%	N/R	2%
7. I regularly use performance objectives with individualized learning experiences to help my students develop to their potential.	12 % 11 %	59% 43%	18% ⁻	11% 30%	N/R 2%
7. As part of a teaching team, I could spend more time developing creativity, responsibility, and habits of inquiry in students.	15%	73%	12%	N/R	N/R
	42%	39%	15%	4%	N/R
9. I teach my classes without assistance and discourage others from helping.	2 %	N/R	2%	48%	48%
	N/R	N/R	N/R	39%	61%
8. I would greatly dislike being a member of a differentiated teaching team.	N/R	2 %	27%	438	28 %
	N/R	2 %	13%	468	39 %
0. I do not work well enough with others to make differentiated team teaching work.	N/R	N/R	7 %	50%	43%
	N/R	N/R	2 %	33%	65%
5. I'm convinced that differentiated team teaching is a waste of time.	N/R	N/R	29%	44 %	36%
	N/R	N/R	7%	38 %	55%
0. I say that differentiated team teaching is asking too much of established teachers. ERIC * Indicates pre test score	N/R - 4%	5% N/R Prespons	27% 4%	45% 43%	23% 49% 5

Table 7 Bedford Career Education Survey Commitment Scale

tion	Strongly Agree Pre/Post	Agree Pre/Post	Uncertain Pre/Post	Disagree Pre/Post	Strongly Disagree Pre/Post
"Career Education" is another name for vocational education.	10% * N/R **	18% N/R	188 28	471 118	78 878
Elementary school is too early for a student to start thinking about career possibilities.	7% N/R	138 28	8 % 4 %	53% 31%	20% 63%
Career education will be of greater long term value to boys than to girls.	2 % 2 %	10% 2%	12% 4%	46% 38%	30% 54%
One can easily predict a child's eventual career by looking at his family's ambitions for him and his father's occupation.	N/R N/R	12k .6%	15% 11%	48 % 52 %	25% 31%
Students going on to college should not make their career plans while in high school.	N/R N/R	5 8 2 8	128 !78	43% 30%	40% 61%
The school guidance department should carry the primary responsibility for career education	7% n. 2%	20% 4%	18% 9%	45% 39%	10% 46%
There are areas in the school program more important than career education that need our time, money, and effort.	13% 4%	18% _7%	38 % 18 %	23 8 47 8	8 % . 24 %
The present high school vocational education courses teach students enough about the world of work.	2% N/R	2 8 2 8	29% 13%	50% 28%	17% 57%
Courses such as art and music would be damaged by including information about job possibiliti in those fields.	es 4%	N/R N/R	10% 2%	57% 35%	33% 59%
Separate courses on career education would be better than incorporating this subject cxisting courses.	2 % N/R	128	25% 13%	418 468	20% 39%

Table 7

Bedford Career Education Survey Commitment Scale

6 4 1

estion	Strongly Agree Uncertain			Disagree	Strongly Disagree
			Pre/Post	Pre/Post	Pre/Post
Career education should be taught by special career education teachers rather than regular teachers.	15%*	17%	25%	35%	8 %
	5%**	2%	2%	53%	38 %
Career education is just another fad that will soon be forgotten.	5 %	10%	25%	43%	17%
	4 %	4%	13%	35%	44%

to the other significant

^{*} Indicates pre test score** Indicates post test score

Conclusions and Recommendations

IBEX shared the certain evaluation functions with the Project Director and his staff. This provided an effective allocation of resources, while maintaining IBEX's independent review of all project activities. Based on the results of the 1975-76 evaluation, the evaluation team offers the following conclusions and recommendations:

- The overall results of the Self Observation Scales as a measure of self concept, seem to indicate that this portion of the project is a success. While some variation by grade level on various scales was noted, overall the program strategies being employed are returning good results.
- from the primary student (grades 1, 2, and 3) to the intermediate student (grades 4, 5, and 6). This must, unless otherwise shown, be considered an occurrence of the student's age and changing allegiances rather than a negative influence of the program.
- an acceptable rate of program impact. The average rate of growth over the three scales for all grades (10, 11, and 12) was six percentile points.

that the three grade levels (10, 11, and 12) are above or at the norm group. It is unfortunate that the CMI was administered to such a small sample for posttesting so that any conclusions that we might draw are subject to some caution. The results do, however, indicate that the program is having a positive impact on the career consciousness of students.

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